
8. Poll

Program Name: Poll.java

Input File: poll.dat

The Association for Coolest Methods (ACM) has decided to finally end the debate as to the best programming language. To do this they took a poll for each language where people signed their name and put either a '+' for +1 or a '-' for -1. Sadly the fanatics voted multiple times, so it is your job to remove all duplicates. You will be summing up all the +1's and -1's to decide if the language is liked or not and print out the final score, but if a person votes multiple times, invalidate the previous vote(s) and only count their last vote. You will only be given the votes and not the language for each poll to eliminate bias.

Input

First line contains T (the number of test cases). T cases follow. Each test case starts with N , the total number of votes. Each of the next N lines is of the form "userid vote" (quotes for clarity only), where userid is a non-empty string of lower-case alphabets (' a ' - ' z ') not more than 20 in length, and the vote is either a '+' or a '-' .

$T, N > 0$

Output

For each test case, output the correct final score in a new line.

Example Input File

```
3
4
tilak +
tilak +
tilak -
tilak +
3
ratna +
shashi -
ratna -
3
bhavani -
bhavani +
bhavani -
```

Example Output to Screen

```
1
-2
-1
```